FORM PTO-1390 (REV 5-93)		DEPARTMENT OF COMMERCE ENT AND TRADEMARK OFFICE	ATTORNEY DOCKET NO. P108172-00022					
	TRANSMITTAL LETTER TO THE UNI	DATE: June 18, 2001						
	DESIGNATED/ELECTED OFFICE (I CONCERNING A FILING UNDER 35	DO/EO/US)	U.S. APPLN. NO. (IF KNOWN, SEE 37 C.F.R. 1.5) 09/701,395					
	NATIONAL APPLICATION NO. 99/12121	INTERNATIONAL FILING DATE June 2, 1999	PRIORITY DATE CLAIMED June 2, 1998					
TITLE OF INVENTION: GENES OF CAROTENOID BIOSYNTHESIS AND METABOLISM AND METHODS OF USE THEREOF								
APPLICANT(S) FOR DO/EO/US: Francis CUNNINGHAM and Zairen SUN								
This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.  (THE BASIC FILING FEE IS ATTACHED)								
2. 🛛	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.							
3. 🗆	This express request to begin national examination procedures [35 U.S.C. 371(f)] at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).							
4. 🗆	A proper demand for International Preliminary Amendment was made by the 19th month from the earliest claimed priority date.							
5. 🗆	A copy of the International Application as filed [35 U.S.C. 371(c)(2)]  a.  is transmitted herewith (required only if not transmitted by the International Bureau).  b.  has been transmitted by the International Bureau.  c.  is not required, as the application was filed in the United States Receiving Office (RO/US).							
6. 🗆	A translation of the International Application into English [35 U.S.C. 371(c)(2)].							
7. 🗆	Amendments to the claims of the International Application under PCT Article 19 [35 U.S.C. 371(c)(3)]  a.  are transmitted herewith (required only if not transmitted by the International Bureau).  b.  have been transmitted by the International Bureau.  c.  have not been made; however, the time limit for making such amendments has NOT expired.  d.  have not been made and will not be made.							
8. 🗆	A translation of the amendments to the claims under PCT Article 19 [35 U.S.C. 371(c)(3)].							
9. 🛛	An oath or declaration of the inventor(s) [35 U.S.C. 371(c)(4)].							
10.	A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 [35 U.S.C. 371(c)(5)].							
Items 11 - 16 below concern other document(s) or information included:								
11.	An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.							
12. 🔯	An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.							
13. 🛭	A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment.							
14.	A substitute specification.							
15. 🗆	A change of power of attorney and/or address letter.							
16. 🛛	Other items or information: CHECK NUMBER 3/9784							

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130.00 OP

A TO	INTERNATIONAL APPLICATION NO. PCT/US99/12121		ATTORNEY DOCKET NO. 108172-00022		
U.S. APPI N. NO. (IF KNOWN SEE 37 C.F.R. 1.50) 09/701,3			DATE: June 18, 2001		
17.  The following fees a			CALCULATIONS	PTO USE ONLY	
Basic Nati nal Fee [37] Search Report has been International preliminary (37 C.F.R. 1.482) No international prelimin: (37 C.F.R. 1.482) but international prelimin: (37 C.F.R. 1.445(a)(2)] Neither international prel (37 C.F.R. 1.482) or inte [37 C.F.R. 1.445(a)(2)] properties of the preliminary (37 C.F.R. 1.482) and all PCT Article 33(2)-(4)	c.F.R. 1.492(a)(1)- prepared by the Efecamination fee parary examination fee ernational search feecamination reational search feecamination uspro				
	ROPRIATE BASIC	\$			
Surcharge of \$130.00 for furr than 20 or 30 months from th [37 C.F.R. 1.492(e)].	nishing the oath or one earliest claimed p	\$ 130.00			
Claims	Number Filed	Number Extra	Rate		
Total Claims	- 20 =	00	X \$ 18.00	\$	
Independent Claims	- 3 =	00	X \$ 80.00	\$	
Multiple dependent claim(s)	(if applicable)	\$			
тс	TAL OF ABOVE	\$ 130.00			
Reduction by one-half for filit Verified Small Entity stateme (Note 37 C.F.R. 1.9, 1.27, 1.	ent must also be file	\$			
(1,10,10,0)	SUBTOT	\$ 130.00			
Processing fee of \$130.00 for later the ☐ 20 ☐ 30 months [37 C.F.R. 1.492(f)].	or furnishing the En s from the earliest o	\$			
[0. 0	TOTAL NATIO	\$ 130.00			
Fee for recording the enclos must be accompanied by ar (37 C.F.R. 3.28, 3.31). \$40.	appropriate cover	\$ 40.00			
	TOTAL FEES E	\$ 170.00			
		Amount to be refunde	ed \$		
		Charged			

A check in the amount of \$170.00 to cover the above fees is enclosed.

Please charge my Deposit Account No. 01-2300 in the amount of \$690.00 to cover the above fee. b.

A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to  $\boxtimes$ Deposit Account No. 01-2300.

NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive [37 C.F.R. 1.137(a) or (b)] must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO: Arent Fox Kintner Plotkin & Kahn 1050 Connecticut Avenue, N.W., Suite 600 Washingt n, D.C. 20036-5339 Tel: (202) 857-6000 Fax: (202) 638-4810

Richard J. Berman

Reg. No. 39,107